

FILE 'REGISTRY' ENTERED AT 16:25:41 ON 23 AUG 2007

L16 1 S MALTITOL/CN
L17 1 S SORBITOL/CN

FILE 'STNGUIDE' ENTERED AT 16:26:58 ON 23 AUG 2007

FILE 'HCAPLUS' ENTERED AT 16:28:06 ON 23 AUG 2007

L18 1614 S L16 AND L17
L19 5918 S TRISACCH?
L20 57764 S TETRASACCH? OR OLIGOSACCH?
L21 14 S L18 AND L19
L22 170 S L18 AND L20

FILE 'STNGUIDE' ENTERED AT 16:28:12 ON 23 AUG 2007

FILE 'HCAPLUS' ENTERED AT 16:29:16 ON 23 AUG 2007

L23 7 S L21 AND L22
L24 5 S L23 AND (PY<2004 OR AY<2004 OR PRY<2004)

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'STNGUIDE' AT 16:25:05 ON 23 AUG 2007
FILE 'STNGUIDE' ENTERED AT 16:25:05 ON 23 AUG 2007
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.06	108.95
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-15.60

=> file registry

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.06	108.95
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-15.60

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 22 AUG 2007 HIGHEST RN 945451-07-0
DICTIONARY FILE UPDATES: 22 AUG 2007 HIGHEST RN 945451-07-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> s maltitol/cn
L16 1 MALTITOL/CN

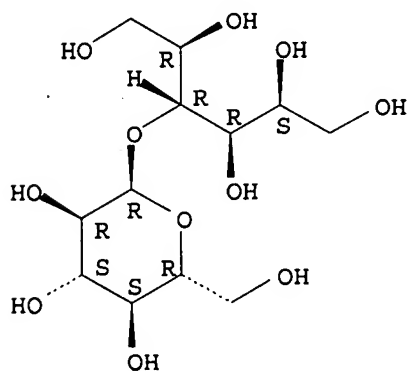
=> d 16
YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' - CONTINUE? (Y)/N:n

=> d l16

L16 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN
RN 585-88-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN D-Glucitol, 4-O- α -D-glucopyranosyl- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Glucitol, 4-O- α -D-glucopyranosyl-, D- (8CI)
CN Maltitol (6CI, 7CI)
OTHER NAMES:

CN Amalty
 CN Amalty MR
 CN Amalty MR 100
 CN Amalty MR 20
 CN Amalty MR 50
 CN Amalty P
 CN Amalty Syrup
 CN Cerestar 16303
 CN D-Maltitol
 CN Lesys
 CN Mabit
 CN Malbit CH
 CN Malbit CH 16385
 CN Malbit CR
 CN Malti MR
 CN Maltidex 100
 CN Maltidex H 16330
 CN Maltisorb
 CN Maltisorb P 200
 CN Maltisorb P 35
 CN Maltisorb P 90
 CN Maltisweet
 CN Maltisweet 3145
 CN Maltit
 CN Sweet G 2
 FS STEREOSEARCH
 DR 97906-38-2
 MF C12 H24 O11
 CI COM
 LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CABA,
 CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMLIST, CIN, CSCHM, CSNB,
 DDFU, DETHERM*, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE,
 NAPRALERT, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, USAN, USPAT2,
 USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2521 REFERENCES IN FILE CA (1907 TO DATE)
 91 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 2533 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 7 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> s sorbitol/cn
L17 1 SORBITOL/CN

=> d 117

L17 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN

RN 50-70-4 REGISTRY

ED Entered STN: 16 Nov 1984

CN D-Glucitol (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Glucitol, D- (8CI)

CN Sorbitol (7CI)

OTHER NAMES:

CN (-)-Sorbitol

CN 7B5697N

CN C*Sorbitex

CN C*Sorbitex 16100

CN C*Sorbitex P 16616

CN Cerestar P 16616

CN Cholaxine

CN CSorbitex 16100

CN Cystosol

CN D-(-)-Sorbitol

CN D-Sorbit 50M

CN D-Sorbitol

CN D-Sorbol

CN Diakarmon

CN E 420

CN Esasorb

CN Foodol D 70

CN Glucarine

CN Glucarine (sorbitol syrup)

CN Glucitol

CN Karion

CN Karion (carbohydrate)

CN Karion instant

CN Kyowa Powder 50M

CN L-Gulitol

CN LTS-P 20M

CN Multitol

CN Neosorb

CN Neosorb 20/60DC

CN Neosorb 70/02

CN Neosorb 70/20

CN Neosorb 70/70

CN Neosorb P 20/60

CN Neosorb P 60

CN Neosorb P 60W

CN Nivitin

CN NSC 25944

CN P 60W

CN Resulax

CN Sionit

CN Sionit K

CN Sionite

CN Sionon

CN Siosan

CN Sorbex M

CN Sorbex R

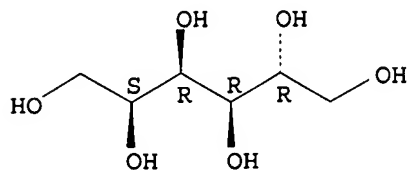
CN Sorbex Rp

CN Sorbex S

CN Sorbex X

ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for
 DISPLAY
 FS STEREOSEARCH
 DR 8013-15-8, 8014-89-9, 8036-93-9, 8042-39-5, 8045-74-7, 8046-05-7,
 63800-20-4, 15060-73-8, 98201-93-5, 3959-53-3, 36134-87-9, 75398-79-7
 MF C6 H14 O6
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS, BIOTECHNO,
 CA, CABA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX,
 CHEMLIST, CHEMSAFE, CIN, CSChem, CSNB, DDFU, DETHERM*, DRUGU, EMBASE,
 ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HSDB*, IFICDB,
 IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, PIRA, PROMT,
 PS, RTECS*, SPECINFO, TOXCENTER, TULSA, USAN, USPAT2, USPATFULL, VETU,
 VTB
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

23007 REFERENCES IN FILE CA (1907 TO DATE)
 1657 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 23114 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> file stnguide
 COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
14.70	123.65

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-15.60

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FILE CONTAINS CURRENT INFORMATION.
 LAST RELOADED: Aug 17, 2007 (20070817/UP).

=> file hcaplus
 COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.12	123.77

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-15.60

CA SUBSCRIBER PRICE

FILE 'HCAPLUS' ENTERED AT 16:28:06 ON 23 AUG 2007

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FILE COVERS 1907 - 23 Aug 2007 VOL 147 ISS 9
FILE LAST UPDATED: 22 Aug 2007 (20070822/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l16 and l17

2533 L16
23114 L17
L18 1614 L16 AND L17

=> s trisacch?

L19 5918 TRISACCH?

=> s tetrasacch? or oligosacch?

3513 TETRASACCH?
56355 OLIGOSACCH?
L20 57764 TETRASACCH? OR OLIGOSACCH?

=> s l18 and l19

L21 14 L18 AND L19

=> s l18 and l20

L22 170 L18 AND L20

=> file stnguide

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	2.60	126.37
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-15.60

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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Aug 17, 2007 (20070817/UP).

=> file hcaplus
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.12	126.49

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-15.60

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FILE 'HCAPLUS' ENTERED AT 16:29:16 ON 23 AUG 2007
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FILE COVERS 1907 - 23 Aug 2007 VOL 147 ISS 9
FILE LAST UPDATED: 22 Aug 2007 (20070822/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l21 and l22

L23 7 L21 AND L22

=> s l23 and (PY<2004 or AY<2004 or PRY<2004)

23928892 PY<2004
4733813 AY<2004
4215776 PRY<2004

L24 5 L23 AND (PY<2004 OR AY<2004 OR PRY<2004)

=> file stnguide

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
2.60	129.09

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-15.60

CA SUBSCRIBER PRICE

FILE 'STNGUIDE' ENTERED AT 16:29:21 ON 23 AUG 2007
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Aug 17, 2007 (20070817/UP).

=> d l24 1-5 ti

YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' - CONTINUE? (Y)/N:y

L24 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2007 ACS on STN
 TI Lower saccharide additives for sinterable nanoscale ceramic powders

L24 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2007 ACS on STN
 TI Wheat protein-based caramels

L24 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2007 ACS on STN
 TI Preparation of alditols composition

L24 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2007 ACS on STN
 TI Evaluation of the liquid chromatographic separation of monosaccharides, disaccharides, trisaccharides, tetrasaccharides, deoxysaccharides and sugar alcohols with stable cyclodextrin bonded phase columns

L24 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2007 ACS on STN
 TI Maltitol powder

=> d l24 1-5 ti abs bib

YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' - CONTINUE? (Y)/N:y

L24 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2007 ACS on STN
 TI Lower saccharide additives for sinterable nanoscale ceramic powders
 AB A ceramic composition having at least one nanoscale ceramic powder, at least one lower saccharide, and water. A moldable aqueous formulation for a ceramic composition having volumetrically uniform porosity and low interparticle contact friction, comprises at least one nanometric ceramic powder capable of withstanding kiln firing, at least one lower saccharide having up to six saccharide units, and water. The nanometric ceramic powder is selected from WC, SiO₂, CeO₂, TiO₂, Al₂O₃, FeO, and Sb₂O₃. The lower saccharide is selected from sugar alcs., monosaccharides, disaccharides, trisaccharides, tetrasaccharides, hexoses, pentoses, and oligosaccharides. The composition is useful in many industrial applications, including preparation of stronger and substantially defect-free green and sintered ceramic bodies.

AN 2004:563382 HCAPLUS <<LOGINID::20070823>>

DN 141:93033

TI Lower saccharide additives for sinterable nanoscale ceramic powders

IN Schilling, Christopher H.; Tomasik, Piotr; Sikora, Marek

PA The United States of America as Represented by the United States Department of Energy, USA

SO U.S., 7 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6761761	B1	20040713	US 2001-836168	20010418 <--
PRAI	US 2000-199125P	P	20000424 <--		

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2007 ACS on STN
 TI Wheat protein-based caramels
 AB A caramel product comprises water, carbohydrate, wheat gluten (replacing milk proteins), oil and flavor. Caramels are produced by combining all but the protein at about 60°, adding wheat gluten to create a homogeneous blend, heating at about 150° until the product is a

dark tan, and cooling. The caramel is used to form a nutritional bar.

AN 2003:656491 HCAPLUS <<LOGINID::20070823>>
DN 139:179093
TI Wheat protein-based caramels
IN Sault, Frances; Jones, Dennis; Warnecke, Mel
PA Bariatrix Products International, Inc., Can.
SO PCT Int. Appl., 28 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003068000	A1	20030821	WO 2003-US2705	20030131 <--
	W:			AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW	
	RW:			GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG	
	CA 2474824	A1	20030821	CA 2003-2474824	20030131 <--
	US 2003161914	A1	20030828	US 2003-355207	20030131 <--
	AU 2003205379	A1	20030904	AU 2003-205379	20030131 <--
	EP 1482808	A1	20041208	EP 2003-704069	20030131 <--
	R:			AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK	
	US 2005118323	A1	20050602	US 2003-503310	20030131 <--
	US 2006188644	A1	20060824	US 2006-403009	20060413 <--
PRAI	US 2002-354940P	P	20020211	<--	
	WO 2003-US2705	W	20030131	<--	
	US 2004-503310	B1	20041214		

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of alditols composition
AB The composition comprises sorbitol 0.1-3.0, maltitol 20-50, maltotriose alc. 20-50, maltotetraose alc. 8-20, and maltopentaose alc. - maltoheptaose alc. 20-30%. The maltose may be replaced by isomaltose. The composition is prepared by diluting 70% malt oligosaccharide to 40-45% solution, hydrogenating with Ni as catalyst at 100-150° and 4-8 MPa, purifying with cationic and anionic exchange resin, decoloring with activated C, concentrating at 100-110° and (-0.9) MPa, crystallizing, and drying.

AN 2000:102933 HCAPLUS <<LOGINID::20070823>>
DN 132:107174
TI Preparation of alditols composition
IN Fan, Zhigang
PA Peop. Rep. China
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 6 pp.
CODEN: CNXXEV
DT Patent
LA Chinese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1179441	A	19980422	CN 1997-119127	19971013 <--
	CN 1070886	B	20010912		
PRAI	CN 1997-119127		19971013	<--	

L24 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Evaluation of the liquid chromatographic separation of monosaccharides, disaccharides, trisaccharides, tetrasaccharides, deoxysaccharides and sugar alcohols with stable cyclodextrin bonded phase columns

AB Both α - and β -cyclodextrin (CD) bonded phase columns were evaluated for their ability to sep. carbohydrates and related mols. Chromatog. data on .apprx.50 solutes are reported. Mobile phases consisting of acetonitrile-water or acetone-water produce the best sepns. Sepns. could be run in isocratic or gradient modes. The α -CD column produced slightly more efficient sepns. than the β -CD column. Both cyclodextrin columns seemed to be more efficient and selective than alkylamine and ion-exchange columns. The stability and reproducibility of the CD columns were excellent and showed little deterioration after several thousand injections. The retention of saccharides on CD bonded phases seems to be related to the number of available hydroxy groups per solute and to the size of the solute. Anal. times and detection sensitivity are discussed.

AN 1989:131583 HCAPLUS <<LOGINID::20070823>>

DN 110:131583

TI Evaluation of the liquid chromatographic separation of monosaccharides, disaccharides, trisaccharides, tetrasaccharides, deoxysaccharides and sugar alcohols with stable cyclodextrin bonded phase columns

AU Armstrong, Daniel W.; Jin, Heng L.

CS Dep. Chem., Univ. Missouri, Rolla, MO, 65401-0249, USA

SO Journal of Chromatography (1989), 462, 219-32

CODEN: JOCRAM; ISSN: 0021-9673

DT Journal

LA English

L24 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Maltitol powder

AB The use of maltitol as a sweetener is limited by its tendency to lump and cake. Thus, 750 kg of an aqueous solution containing 75% solids (maltitol 75, sorbitol 5, and hydrated oligosaccharide higher than a trisaccharide alc. 20%) was evaporated at 740-50 mm and a maximum temperature of 115° to obtain a concentrate with essentially no water. The concentrate was cooled, ground in a hammermill, and screened at 40% relative humidity to obtain 500-1700 μ particles. These particles, 200 kg, and 40 kg sorbitol particles (<100 μ) were mixed in a mixer heated to 60° at 10 rpm for 60 min. The mixture was cooled to obtain 240 kg maltitol powder, containing .apprx.20 parts by weight sorbitol. Storage for 2 hr at 59% relative humidity and 37° showed no caking or lumping.

AN 1975:407593 HCAPLUS <<LOGINID::20070823>>

DN 83:7593

TI Maltitol powder

IN Oyamada, Koichi; Hashimoto, Seiji; Kuno, Kazuaki; Hirabayashi, Yasubumi

PA Nikken Chemicals Co., Ltd.

SO Ger. Offen., 9 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2432562	A1	19750123	DE 1974-2432562	19740706 <--
	JP 50025514	A	19750318	JP 1973-76786	19730707 <--
	FR 2236005	A1	19750131	FR 1974-22899	19740701 <--
	FR 2236005	B1	19781124		
	US 3915736	A	19751028	US 1974-485237	19740702 <--
	GB 1419360	A	19751231	GB 1974-29967	19740705 <--
	IT 1015695	B	19770520	IT 1974-24839	19740705 <--
PRAI	JP 1973-76786	A	19730707	<--	